## PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY EX	AMINING AUTHORIT	Y		
To: JOSEPH DEBENEDICTIS BACON & THOMAS, PLLC 925 SLATERS LANE - FOURTH FLOOR		PCT		
ALEXANDER, VA 22314			WRITTEN OPINION	
			(PCT Rule 66)	
		Date of Mailing	10 NOV 2003	
Applicant's or agent's file reference		(day/month/year)   REPLY DUE	ZOMOV ZUUJ	
AUST3001PCT			within 1 months/days from the above date of mailing	
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)	
PCT/US01/44061	26 November 2001 (26.	.11.2001)		
International Patent Classification (IPC)				
IPC(7): C22F 01/12; C22C 11/00 and U Applicant	S Cl.: 148/706, 400; 420	/563, 590; 429/225,2	26	
INTEGRAN TECHNOLOGIES INC				
1. This written opinion is the first	st_(first, etc,) drawn by	this International Pre	liminary Examining Authority.	
2. This opinion contains indication	ons relating to the followi	ing items:		
I Basis of the opinio	n			
II Priority	-			
	of oninion with record to			
The composition of opinion with regard to hoverty, inventive step and industrial applicability				
[ ]				
citations and explain	f under Rule 66.2 (a)(ii) v nations supporting such si	with regard to novelty tatement	, inventive step or industrial applicability;	
VI Certain documents				
VII Certain defects in t	he international application	on.	•	
$\equiv$	s on the international app			
3. The applicant is hereby invited				
			e the expiration of that time limit, request	
this Authority i	<del>o grant an extension. See</del>	rule 66.2(d).		
How? By submitting a For the form ar	i written reply, accompand id the language of the am	ied, where appropria endments, see Rules	te, by amendments, according to Rule 66.3. 66.8 and 66.9.	
Also For an additional opportunity to submit amendments, see Rule 66.4.  For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis.				
For an informal	communication with the	examiner, see Rule (	arguments, see Rule 66.4 bis.	
If no reply is filed, the interna	tional preliminary examin	nation report will be o	established on the basis of this opinion.	
<ol> <li>The final date by which the inte- examination report must be esta</li> </ol>	ernational preliminary ablished according to Rul	e 69.2 is: <u>26 March</u> 2	2004 (26.03.2004)	
Name and mailing address of the IPEA/L		Authorized officer		
Mail Stop PCT, Atm: IPEA/US Commissioner for Patents		Sikyin Ip Jean From		
P.O. Box 1450 Alexandria, Virginia 22313-1450			Garaies, i No.	
Facsimile No. (703)305-3230		Telephone No. 703	-300-0001	

Form PCT/IPEA/408 (cover sheet)(July 1998)

## WRITTEN OPINION

International application No.	
PCT/US01/44061	

I. Bas	is of the opinion
1. With	regard to the elements of the international application:*
	the international application as originally filed
	the description:
	pages 1-4,6-18,22,24-28, and 31 , as originally filed
	pages 5,19,20,21,23,29, and 30 , filed with the demand
	pages NONE, filed with the letter of
$\boxtimes$	the claims:
	pages NONE , as originally filed
	pages NONE , as amended (together with any statement) under Article 19
	pages 33-34d , filed with the demand
	pages NONE, filed with the letter of
$\boxtimes$	the drawings:
	pages 1-9 , as originally filed
	pages NONE , filed with the demand
	pages NONE , filed with the letter of
	the company listing most of the description.
ப	the sequence listing part of the description: pages NONE, as originally filed
	pages NONE, as originally filed
	pages NONE , filed with the letter of .
2. With	regard to the language, all the elements marked above were available or furnished to this Authority in the
langi	regard to the aniguage, an the crements marked above were available of furnished to his Additionally in the tagger in which the international application was filed, unless otherwise indicated under this item.
Thes	e elements were available or furnished to this Authority in the following language which is:
	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
Ħ	the language of publication of the international application (under Rule 48.3(b)).
片	
ليا	the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).
	, and the second
3. With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written on was drawn on the basis of the sequence listing:
	• •
	contained in the international application in printed form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
	international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing
	has been furnished.
۱. 🔲 ۱	The amendments have resulted in the cancellation of:
	the description, makes MONTS
	the description, pages NONE
	the claims, Nos. NONE
	the drawings, sheets <del>/fig</del> NONE
· 🗀 🤅	This opinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go
	eyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
Replace	ment sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in
us opinio	n as "originally filed."

Form PCT/IPEA/408 (Box I) (July 1998)

## WRITTEN OPINION

International application No. PCT/US01/44061

1. STATEMENT			
Novelty (N)	Claims	24-25 and 27-30	YE
	Claims	1-23,26,31-39	NC
Inventive Step (IS)	Claims	NONE	YE
	Claims	1-39	NC
Industrial Applicability (IA)	Claims	1-39	YE
	Claims	NONE	NO
expanded that reads on the claimed perforated (instoressing, stamping, extruding, drawing, etc (col. 2 emperature ranges 180-300°C for 5 to 20 minutes special grain boundary of at least 50% (abstract and kill in the art to select any portion of range, include eference because the prior art reference finds that stility.	, lines 52-59). 1 to induce recrys 1 col. 2, lines 45 ling the claimed	The deformed electrode material is hear tallization (col. 2, lines 60-64). Electri- (47). Therefore, it would have been or range and steps, from the broader range	t treatment in the ode of Lehockey contain obvious to one of ordinar are disclosed in a prior are
Claims 24-25 and 27-30 lack an inventive step under view of JP 62177868.  The claimed subject matter as is disclosed alloys. However, JP 62177868 in an abstract disclosed andeavor or the analogous metallurgical art. Therefited references at the time the invention was made 2177868 in order to improve/provide high mechanical claims 1-39 meet the criteria set out in PCT Article and be made or used in industry.	and rejected ab oses the claimed fore, it would ha to provide Leho ical strength, ox 33(4), and thus	ove by Lehockey except for the propor conventional Pb based alloy compositive two been obvious to one having ordinar ckey with conventional Pb based alloy idation resistance, and long service life	tions of Pb based electron on in the same field of y skill in the art of the proportions as taught by e.
The claimed subject matter as is disclosed illoys. However, JP 62177868 in an abstract disclosed indeavor or the analogous metallurgical art. Therefited references at the time the invention was made 2177868 in order to improve/provide high mechanical interest and the criteria set out in PCT Article and the made or used in industry.  NEW CITATIONS	and rejected aboses the claimed fore, it would hat to provide Leho ical strength, ox 33(4), and thus	ove by Lehockey except for the propor conventional Pb based alloy compositive twe been obvious to one having ordinar ckey with conventional Pb based alloy idation resistance, and long service life have industrial applicability because the	tions of Pb based electron on in the same field of y skill in the art of the proportions as taught by e.
The claimed subject matter as is disclosed alloys. However, JP 62177868 in an abstract disclosed andeavor or the analogous metallurgical art. Therefited references at the time the invention was made 2177868 in order to improve/provide high mechanical arts. Therefore, and the subject of the content of the	and rejected ab best the claimed fore, it would ha to provide Leho ical strength, ox 33(4), and thus	ove by Lehockey except for the propor conventional Pb based alloy composition to been obvious to one having ordinar ckey with conventional Pb based alloy idation resistance, and long service life have industrial applicability because the	tions of Pb based electro on in the same field of y skill in the art of the proportions as taught by e.
The claimed subject matter as is disclosed lloys. However, JP 62177868 in an abstract disclondeavor or the analogous metallurgical art. Therefited references at the time the invention was made 2177868 in order to improve/provide high mechanical laims 1-39 meet the criteria set out in PCT Article and be made or used in industry.  NEW CITATIONS  S 6,086,691 A (LEHOCKEY et al) 11 July 2000, see the subject to the provide high mechanical laims and the subject to the provide high mechanical laims are subject to the provide high mechanical laims and the provide high mechanical laims are subject to the provide high mechanical laims and the provide high mechanical laims are subject to the provide high mechanical laims are	and rejected ab best the claimed fore, it would ha to provide Leho ical strength, ox 33(4), and thus	ove by Lehockey except for the propor conventional Pb based alloy composition to been obvious to one having ordinar ckey with conventional Pb based alloy idation resistance, and long service life have industrial applicability because the	tions of Pb based electro on in the same field of y skill in the art of the proportions as taught by e.
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The claimed subject matter as is disclosed alloys. However, JP 62177868 in an abstract disclosed andeavor or the analogous metallurgical art. Therefore ited references at the time the invention was made 2177868 in order to improve/provide high mechanical art.  Claims 1-39 meet the criteria set out in PCT Article and be made or used in industry.  NEW CITATIONS  S 6,086,691 A (LEHOCKEY et al) 11 July 2000, state of the content of the conte	and rejected ab best the claimed fore, it would ha to provide Leho ical strength, ox 33(4), and thus	ove by Lehockey except for the propor conventional Pb based alloy composition to been obvious to one having ordinar ckey with conventional Pb based alloy idation resistance, and long service life have industrial applicability because the	tions of Pb based electro on in the same field of y skill in the art of the proportions as taught by e.
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Supplemental F	Sox
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(To be used when the space in any of the preceding boxes is not sufficient)

## TIME LIMIT

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

Form PCT/IPEA/408 (Supplemental Box) (July 1998)